

Title (en)

Method of preparing dielectric ceramic material and dielectric resonator

Title (de)

Verfahren zur Herstellung von dielektrischem keramischen Material und dielektrischer Resonator

Title (fr)

Procédé de fabrication de matériau céramique diélectrique et résonateur diélectrique

Publication

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Application

EP 00300256 A 20000114

Priority

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- JP 830799 A 19990114

Abstract (en)

There is provided a dielectric ceramic composition wherein a main crystal phase is a perovskite-type crystal phase, comprising a complex oxide which contains, as a metal element, at least a rare earth element, Al, M (M is Sr, alternatively, Sr and Ca) and Ti, and is represented by the following composition formula: aLn₂O_x bAl₂O₃ cMO dBaO eTiO₂ wherein Ln is a rare earth element; and a, b, c, d and e is a mole ratio in a predetermined range, and more specifically comprising a solid solution of LnAlO_{(X+3)/2} (3</=x</=4) and RTiO₃ (R is an alkaline earth metal containing at least Sr). This composition provides a large dielectric constant epsilon r and a high Q value in a high frequency region, and also lessens the variation in dielectric constant epsilon r, Q value, and resonance frequency temperature coefficient tau f. <IMAGE>

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CPC (source: EP KR US)

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